



CONSTRUCTION STORMWATER GENERAL PERMIT INSPECTION REPORT

State of Washington Department of Ecology

Section A: General Data

Ecology Inspector(s): Carol Serdar, Jess Eakens	On-Site Representative Name: Chris Spens- Tollhouse Energy Company Title: Director, Regulatory & Environmental Affairs Phone: 360-746-3435 Email: cspens@tollhouseenergy.co m	Inspection Date and Entry/Exit Time: Sep 30, 2020, 09:45/14:30 Receiving waters: Puyallup River	Inspection Type: Announced Permit webpage: https://fortress.wa.gov/ecy/p/aris/FacilitySummary.aspx?FacilityId=70091
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Section B: Background

Note: See Corrections Required Form

The Electron Hydro LLC Intake project is covered under the State of Washington's Construction Stormwater General Permit (CSWGP). The CSWGP is a National Pollutant Discharge Elimination System (NPDES) and a State Waste Discharge permit for discharge of construction-related stormwater. The purpose of this inspection is to conduct a compliance inspection and to provide technical assistance as appropriate. Ecology had previously been to the site a few years' prior, during the JARPA review for the then proposed re-construction of the barrier dam and intake structure; and on 11 August 2020 in response to ERTS699710; and 17 August 2020 for a CSWGP compliance inspection; and 21 September 2020 partial CSWGP compliance inspection and response to ERTS 700385 and 700706.

This inspection incorporates a review of the CSWGP site, discussions and observations related to ERTS700385 (fish kill), and ERTS700706 (wetland filling). These two ERTS are not within or near the CSWGP site and have implications related to hydro operations. The two ERTS are included for ease of reference, and follow-up is occurring outside of the CSWGP. This report will incorporate the areas under CSWGP coverage only.

Carol Serdar and Jess Eakens met with Electron Hydro representatives Chris Spens, Steve Goodrich, and Thom Fischer at the hydro office where the paperwork review began, and then drove separately to various locations within the Electron Project.

Weather at time of inspection: Overcast and 70s
Precipitation in the past 24 hours? No

On-site Observations

SWPPP, SWPPP map, and Site Log Book all need to be updated. See violation messages below and Corrections Required Form.

Concrete stairs had been poured, and exposed and unworked soil on steep slope is stabilized. Water at base of staircase was sampled with a 6.5 pH (Ecology sampled) result.

Haul road gravel needs maintenance for stabilization; adjacent slope to the intake structure is stabilized with jute mat. Work consisted of intake structure dewatering, with mitigation efforts to prevent water from travelling underneath hillside and entering the work area. Monitoring was being conducted 300ft downstream of construction activity.

Stormwater from the stormwater conveyance system is being dispersed into the "forested uplands" area. PH analysis was also conducted at this point, with a result of 6.5 (Ecology sampled).

Electron representatives confirmed that turbidity sampling will take place should full infiltration not be achieved.

There appeared to be a trickle of water entering the stormwater pond, but not discharging due to capacity. Ecology noted the need to fully plug the outlet pipe within the sediment trap.

Ecology did not observe any crumb rubber bits or pieces of sports turf.

Section C: Compliance*Note: See Corrections Required Form***Inspection Checklist**

<u>Is the Permit Coverage Letter on-site?</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Is a copy of the CSWGP on-site?</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Is the Site Log Book Current?</u> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Is the Site Log Book Adequate?</u> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<u>Are Site Inspections Recorded?</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Are Site Inspections Adequate?</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Permittee has Prepared and Implemented a SWPPP?</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Is the SWPPP Adequate?</u> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Violations and action required to achieve compliance**Complete or submit date****Guidance**S4.A Site Log Book**Site Log Book should include WQMP and daily data sheets.**

Failure to meet S4.A: The site maintenance log books are not adequate. Retain Plans and Records on site, or within reasonable access to the site for use by the operator or for on-site review by Ecology or the local jurisdiction.

7 days from the date of this inspection.

S9.B SWPPP General Requirements

SWPPP must include accurate disturbed acreage (10 acres), correct Ecology contact info (Carol Serdar with SWRO), and all ERTS and responses.

Failure to meet S5.C. The Permittee must retain records of all monitoring information (site log book, sampling results, inspection reports/checklists, etc.), Stormwater Pollution Prevention Plan, copy of the permit coverage letter (including Transfer of Coverage documentation), and any other documentation of compliance with permit requirements for the entire life of the construction project and for a minimum of three years following the termination of permit coverage.

SWPPP must reflect all on-site BMPs, including infiltration BMPs, and BMP changes made to address the hydraulic fluid spills that occurred September 25th and 29th.

Failure to meet S9.B.1. Missing or incomplete 13 elements of S9.D.1-13, including BMPs used to address each element. Missing or incomplete construction phasing/sequence and general BMP implementation schedule. The SWPPP is not adequate. Review the SWPPP for compliance with Special Condition S9 and make appropriate revisions within 7 days of this inspection, per S9.B.2.a.

SWPPP map must reflect current BMPs, including the infiltration area, and BMPs used for hydraulic fluid spills that occurred on September 25th and 29th.

S9.E SWPPP – Map Contents and Requirements

Failure to meet S9.E: SWPPP Map Contents and Requirements. S9.E.5: The SWPPP does not include locations of structural and nonstructural controls (BMPs) identified in the SWPPP. Review the SWPPP for compliance with Special Condition S9 and make appropriate revisions within 7 days of this inspection, per S9.B.2.a. The SWPPP map contents and requirements must be corrected to address these issue(s), per S9.E.

7 days from the date of this inspection.

Ecology's [Stormwater Pollution Prevention Plan \(SWPPP\) template](#) and [SWMMWW Vol. II-3.2 SWPPP guidance](#).

<p><u>S9.D.9 Control Pollutants</u> Fuel tanks observed without proper/ effective secondary containment. Failure to meet S9.D.9.b: Provide cover, containment, and protection from vandalism for all chemicals, liquid products, petroleum products, and other materials that have the potential to pose a threat to human health or the environment. On-site fueling tanks must include secondary containment. Secondary containment means placing tanks or containers within an impervious structure capable of containing 110% of the volume contained in the largest tank within the containment structure. Doublewalled tanks do not require additional secondary containment. Design, install, implement and maintain effective pollution prevention measures to minimize the discharge of pollutants, as set forth in permit conditions S1.D.1, S9.D.9.</p>	<p>Immediately begin. Address the problems no later than 10 days from the date of this inspection.</p>	<p>C151, C152, C153, C154, C250, C251, C252, C253</p>
<p><u>S9.D.11 Maintain BMPs</u> Unmaintained haul road stabilization, unmaintained secondary containment observed beneath fuel tanks, and unmaintained ditch check BMPs in "conveyance ditch." Failure to meet S9.D.11.a: Permittee must maintain and repair all temporary and permanent erosion and sediment control BMPs as needed to assure continued performance of their intended function in accordance with BMP specifications. Maintain and repair all temporary and permanent BMPs, as set forth in permit condition S9.D.11.a.</p>	<p>Immediately begin. Address the problems no later than 10 days from the date of this inspection.</p>	<p>SWMMWW, Chapter II-4 Best Management Practices Standards and Specifications, C150, C160</p>
<p>For assistance with any of these compliance issues or recommendations regarding BMPs, please see the 2014 Stormwater Management Manual for Western Washington (SWMMWW), Volume II, Construction Stormwater Pollution Prevention which includes BMPs for Source Control and Runoff Conveyance and Treatment BMPs. The full SWMMWW is available at: http://www.ecy.wa.gov/programs/wq/stormwater/manual.html.</p> <p>The Department of Ecology has the authority to issue formal enforcement actions including issuance of orders and civil penalties of up to \$10,000 per day per violation for violations of your NPDES permit and/or state laws and regulations.</p> <p><i>Noncompliance with the limits, monitoring requirements, terms and/or conditions established in your permit may result in formal enforcement action by the Department of Ecology.</i></p>		
<p>Ecology Inspector (signature): <u>Jess Eakens</u> Date: October 7, 2020 Ecology Inspector (print name): Jess Eakens</p> <p>Water Quality Program Southwest Regional Office PO Box 47775 Olympia, WA 98504-7775 SWRO Tel: 360-407-6300</p>		

Photo Description: SWPPP map located within staging area office- needs to be updated with all on-site BMPs

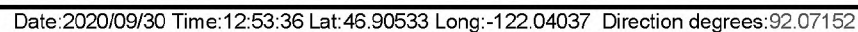


Photo 2

Photo Description: General upland staging area view



Date:2020/09/30 Time:12:51:19 Lat:46.9053 Long:-122.04042 Direction degrees:270.77008

Photo 3

Photo Description: General upland staging area view



Date:2020/09/30 Time:13:10:58 Lat:46.90533 Long:-122.04053 Direction degrees:323.83197

Photo 4

Photo Description: Plastic mesh should be removed prior to heavy rains. Potential conveyance channel for treated pH water.



Date:2020/09/30 Time:13:13:18 Lat:46.90563 Long:-122.04094 Direction degrees:153.40218

Photo 5

Photo Description: Unmaintained secondary containment



Date:2020/09/30 Time:13:16:41 Lat:46.90572 Long:-122.04127 Direction degrees:57.29525

Photo 6

Photo Description: Active work area, fuel tanks without proper secondary containment in riverbed



Date:2020/09/30 Time:13:38:11

Photo 7

Photo Description: Secondary containment without 110% capacity and side walls need to be maintained.



Date:2020/09/30 Time:13:22:52 Lat:46.90471 Long:-122.04118 Direction degrees:146.33566

Photo 8

Photo Description: Concrete waste water treatment system- Thom Fischer demonstrated how CO2 sparging treatment system operates.



Date:2020/09/30 Time:13:24:37 Lat:46.90523 Long:-122.04077 Direction degrees:185.93329

Photo 9

Photo Description: pH sampling result at base of recently poured concrete staircase



Date:2020/09/30 Time:13:35:35 Lat:46.90563 Long:-122.03978 Direction degrees:266.56841

Photo 10

Photo Description: Stabilized slope, unmaintained haul road stabilization



Date:2020/09/30 Time:13:37:05 Lat:46.90566 Long:-122.03961 Direction degrees:114.00119

Photo 11

Photo Description: Forested uplands area where stormwater is infiltrated



Date:2020/09/30 Time:14:09:08 Lat:46.90848 Long:-122.0417 Direction degrees:65.96987

Photo 12

Photo Description: pH sampling result at forested uplands area



Date:2020/09/30 Time:14:10:56 Lat:46.90846 Long:-122.04152 Direction degrees:4.17676

EH0002888

Photo 13

Photo Description: Sediment pond, no longer being utilized for stormwater management



Date:2020/09/30 Time:14:11:53 Lat:46.90847 Long:-122.04156 Direction degrees:310.86194

Photo 14

Photo Description: Unmaintained ditch checks in conveyance ditch leading to sediment trap



Date:2020/09/30 Time:14:14:59 Lat:46.90826 Long:-122.04195 Direction degrees:151.54778

Photo 15

Photo Description: Outlet pipe in sediment trap- covered, but plug needs to be checked and maintained



Date:2020/09/30 Time:14:16:25 Lat:46.90839 Long:-122.04202 Direction degrees:151.16135